

FIG. 1

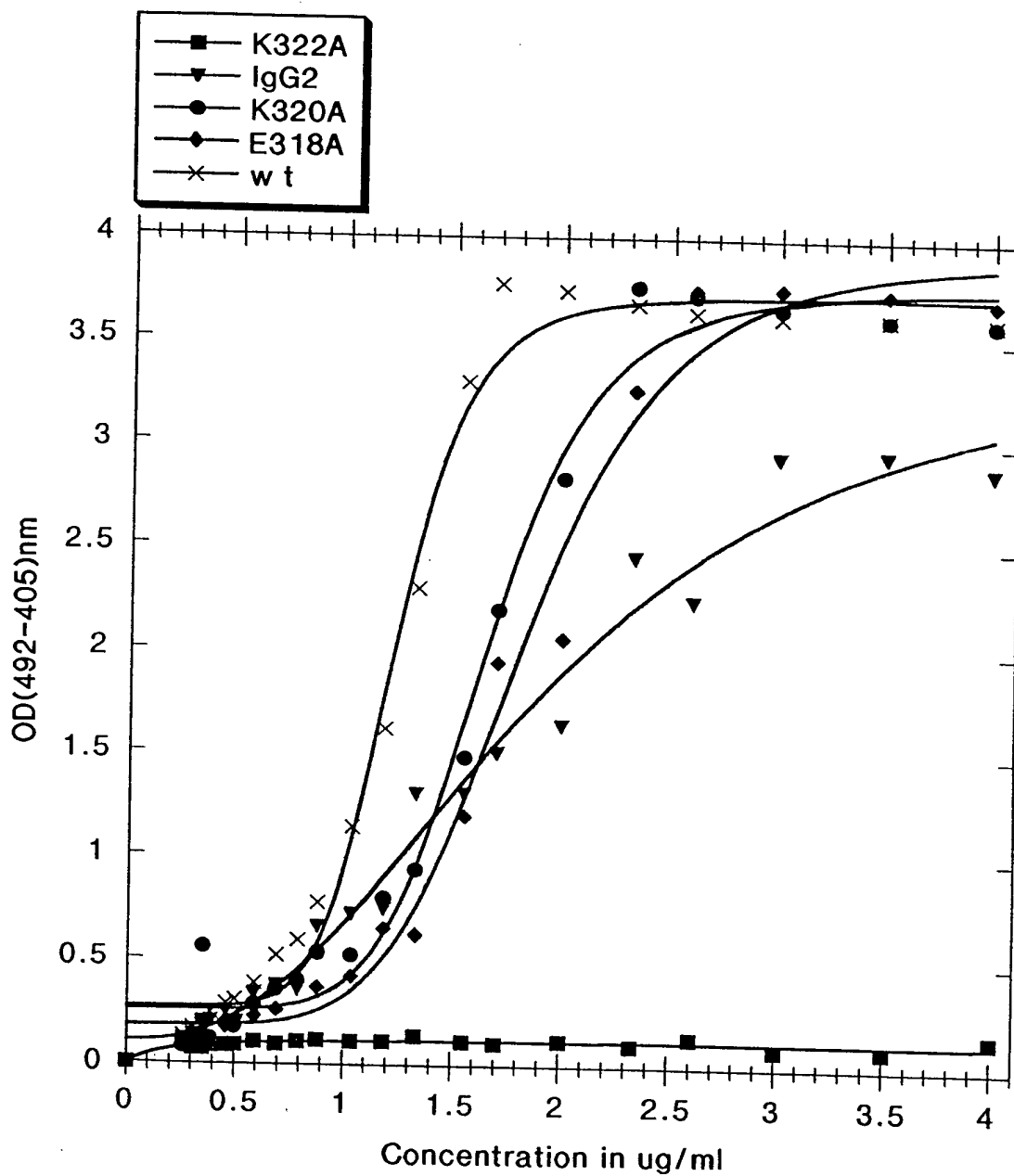


FIG. 2

004110-88563460

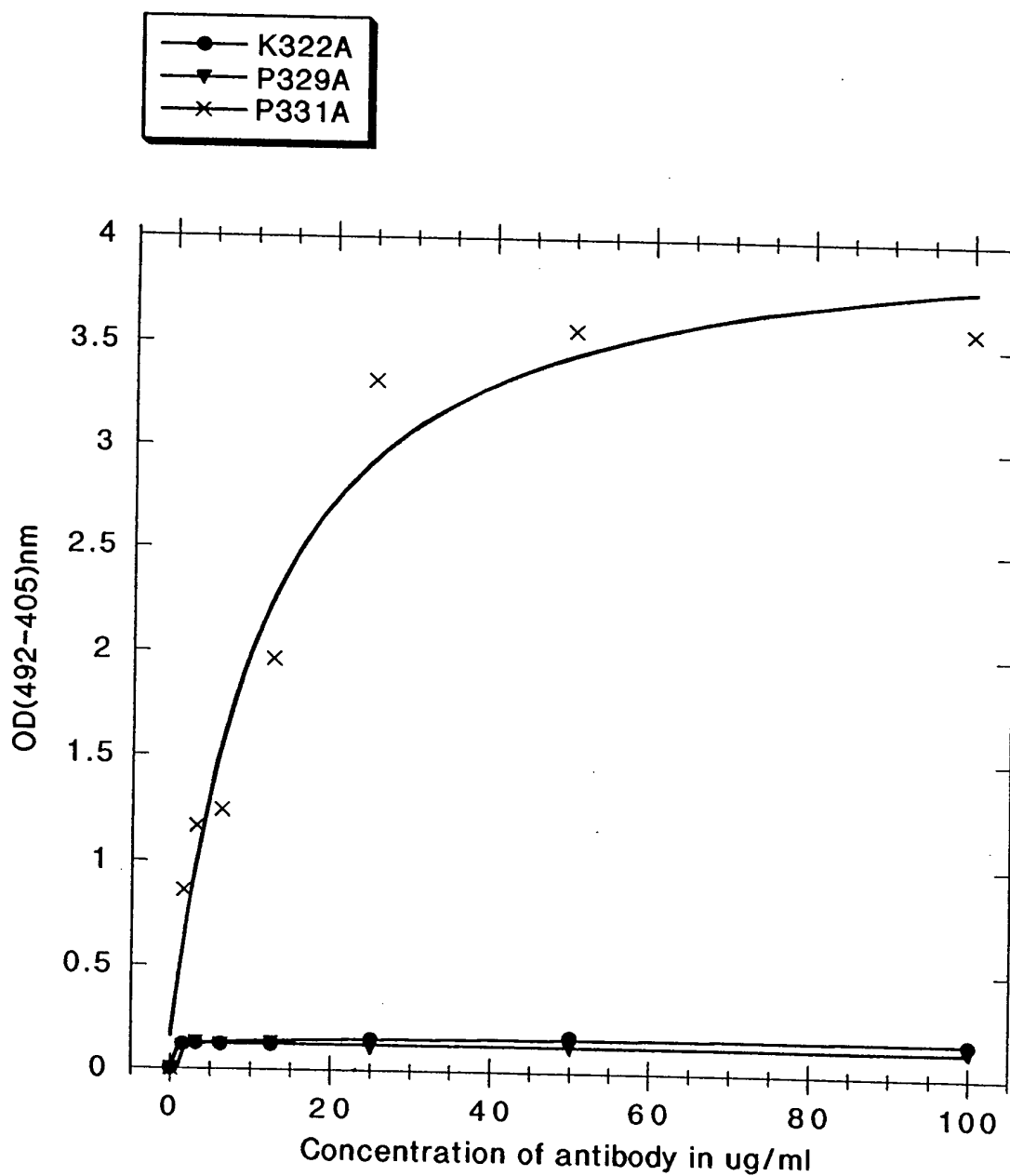


FIG. 3

FIG. 4A (E27) - Light Chain

DIQLTQSPSS LSASVGDRVT ITCRASKPVD GEGDSYMNWY QQKPGKAPKL LIYAASYLEG GVPSEFGSG
SGTDFTLTIS SLQPEDFATY YCQQSHEDPY TFGQGTKEI KRTVAAPSVF IFPPSDEQLK SGTAASVCLL
NNFYPREAKV QWKVDNALQS GNSQESVTEQ DSKDSTYSLS STLTLSKADY EKHKVYACEV THQGLSSPVT
KSFNRGEC

FIG. 4B (E27) - Heavy Chain

EVQLVESGGG LVQPGGSLRL SCAVSGYSIT SGYSWNWIRQ APKGLEWVA SIKYGETKY NPSVKGRITI
SRDDSKNTFY LQMNSLRAED TAVYTCARGG HYFGHWHFV WGQGTLLTVS SASTKGPSVF PLAPSSKSTS
GGTAALGCLV KDYFPEPVTV SWNSGALTSG VHTFPAVLQS SGLYSLSSV TVPSSSLGTQ TYICNVNKKP
SNTKVDKKVE PKSCDKTHC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN
WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYCKVSNK ALPAPIEKTI SKAKGQPREP
QVYTLPPSRE EMTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTTP VLDSDGSFFL YSKLTVDKSR
WQQGNVFSCS VMHEALHNHY TQKSLSLSPG K

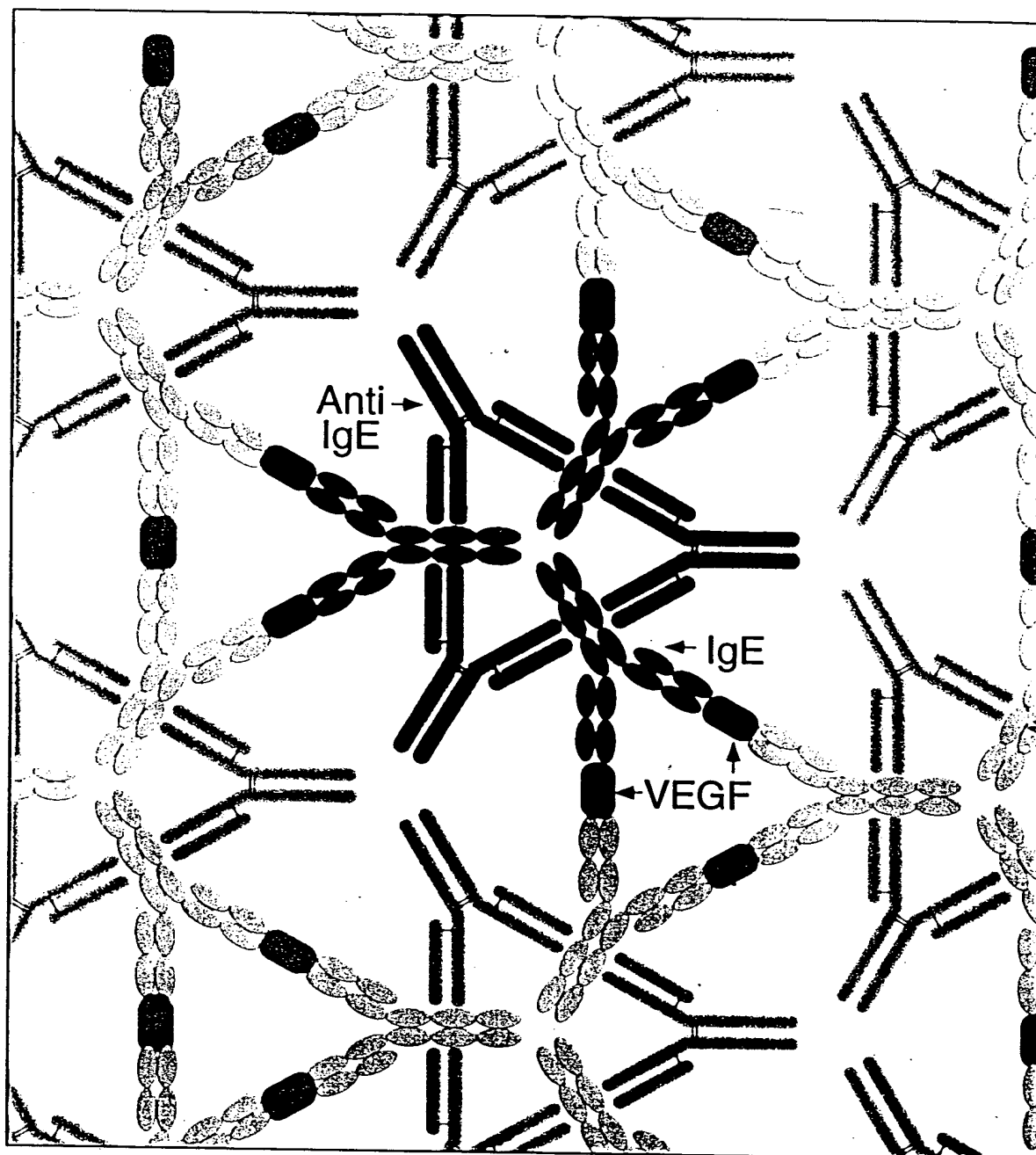


Fig. 5

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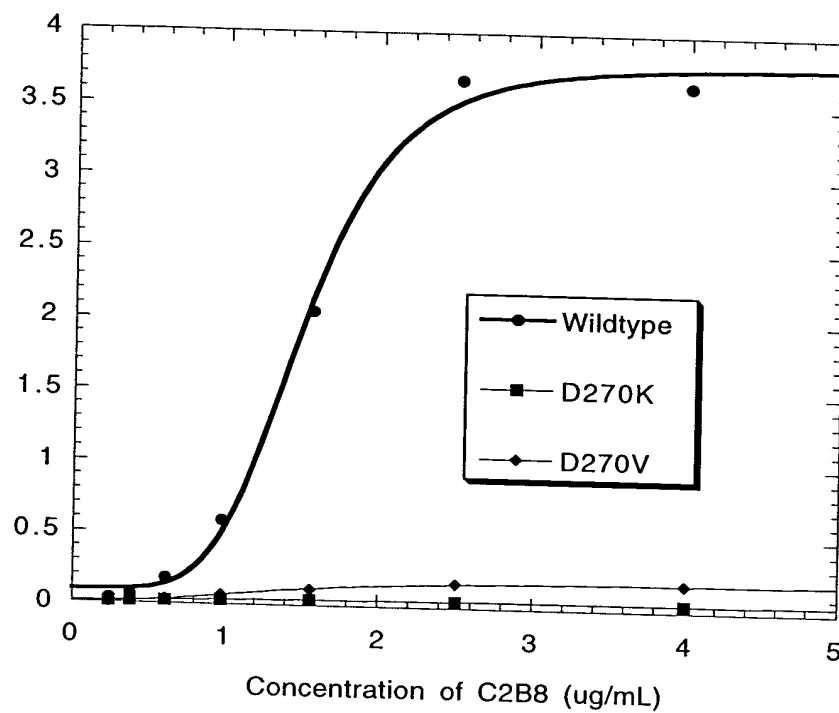




FIG. 6

Log of Concentration of C2B8 (ug/mL)	Wildtype FSU	D270K FSU	D270V FSU
0.1	5800	6300	6300
0.2	5800	6300	6200
0.3	5500	6200	6000
0.6	3900	6100	6100
1.2	1500	6100	6000
2.5	500	6000	5800
5.0	300	6000	5700
10.0	200	6000	5400

FIG. 7

 K274A
 S324A
 K326A
 K334A
 P329A
 P331A
 E333A
 293-Wt-C2B8
 CHO-Wt-C2B8
 Y278A
 T335A

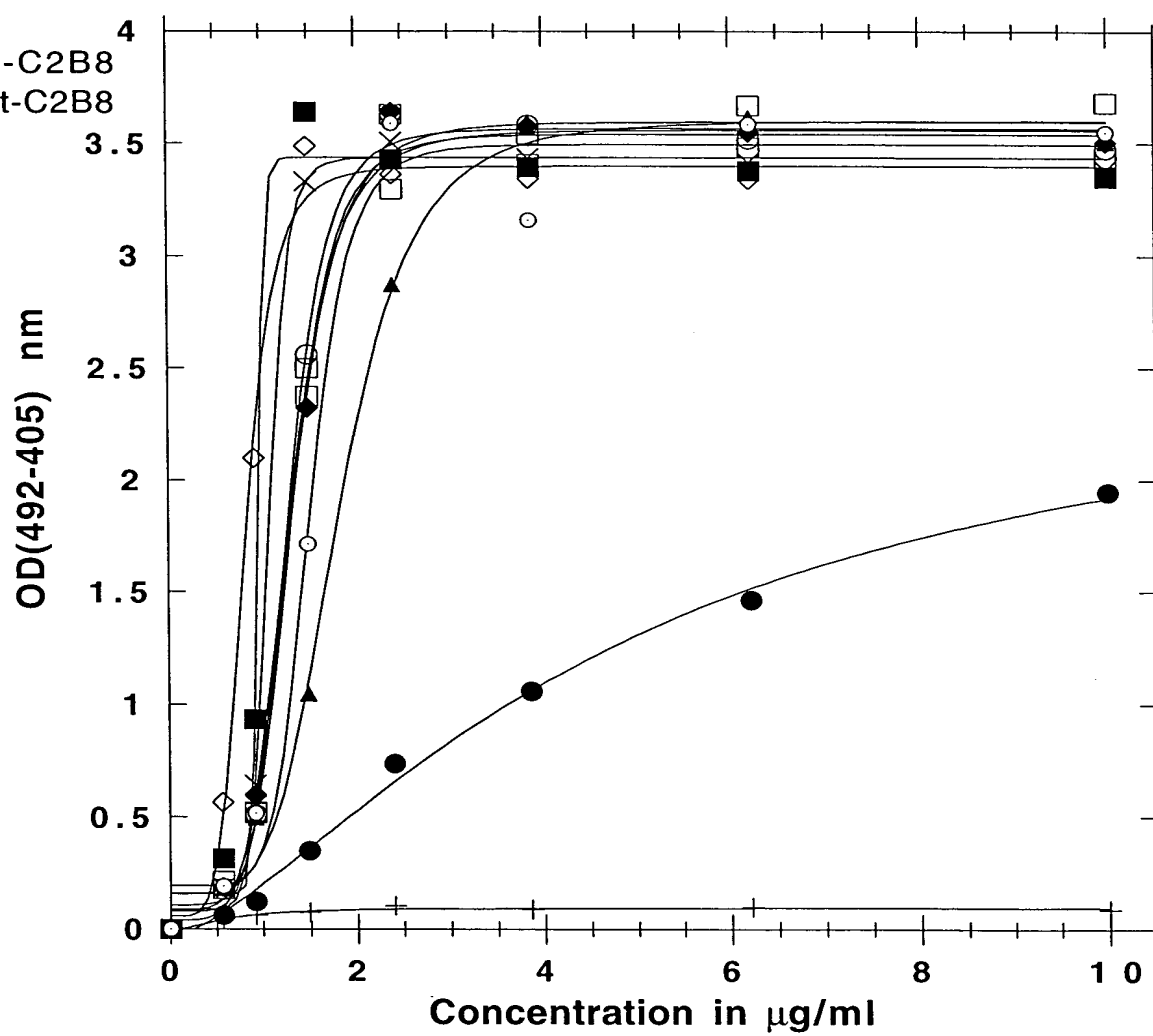


FIG. 8

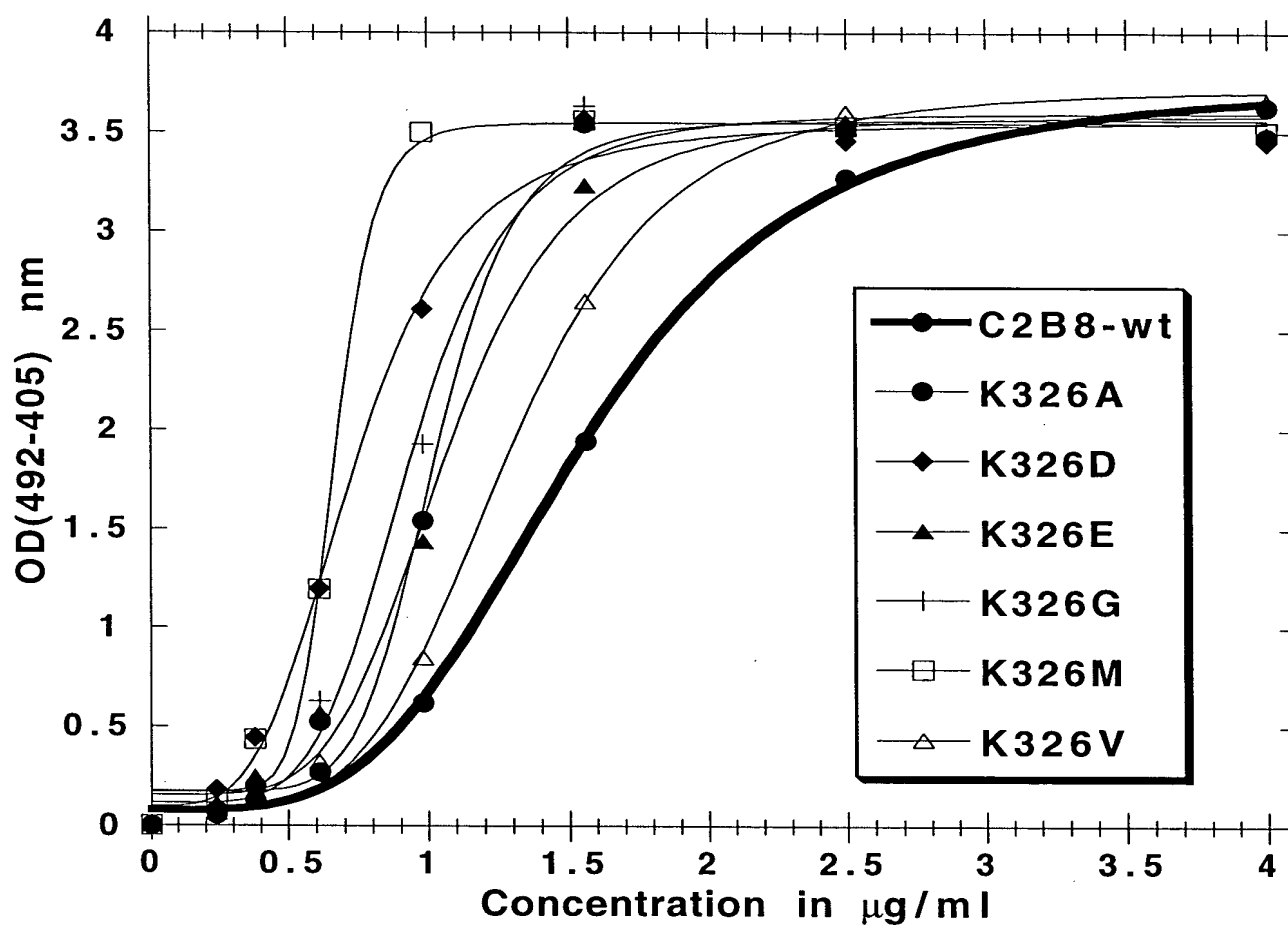


FIG. 9

00770" 8858360

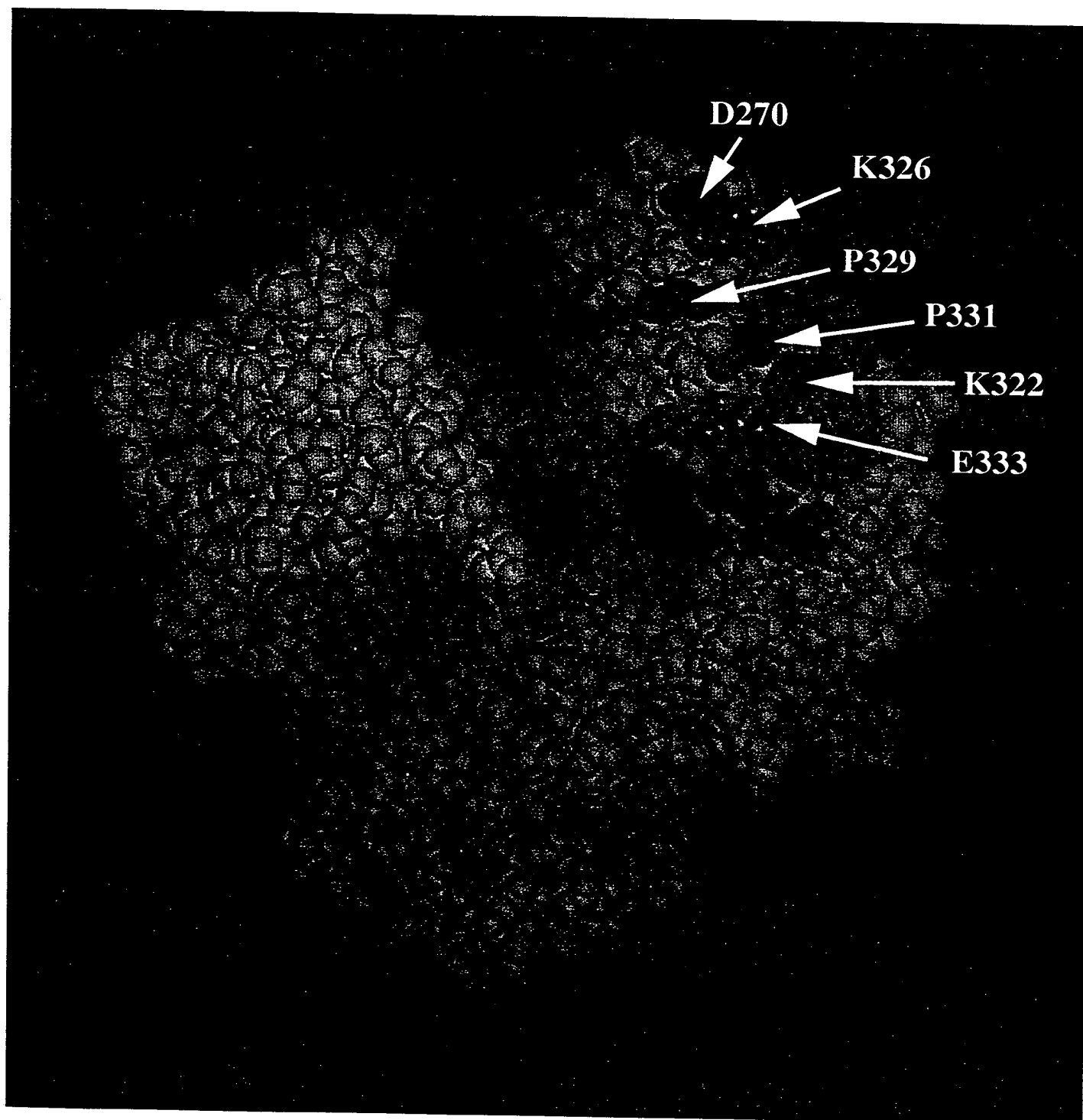


FIG. 10

004770-88563460

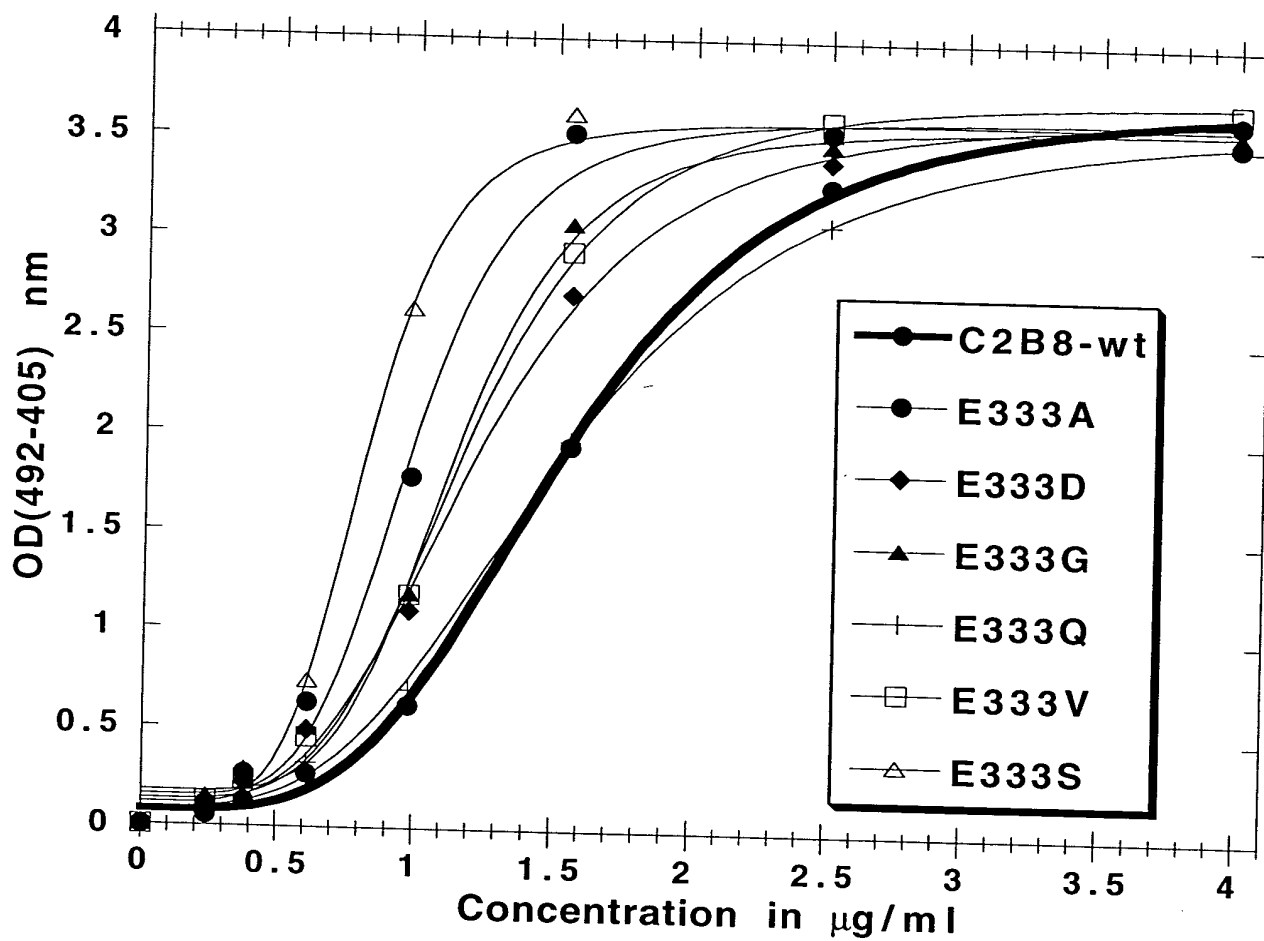


FIG. 11

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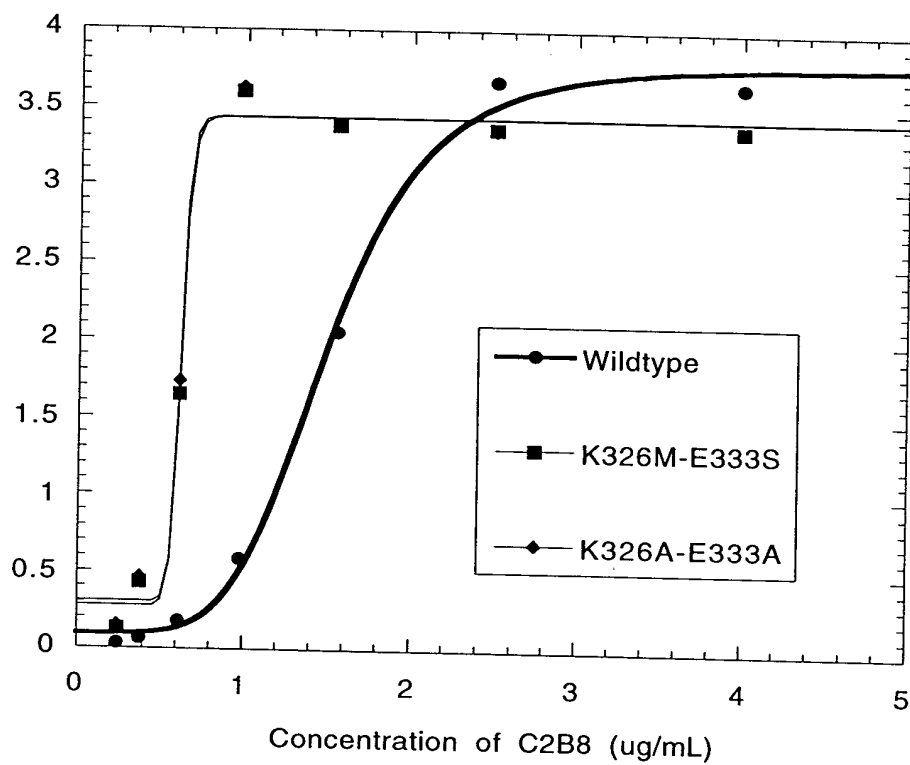


FIG. 12

Log of Concentration of C2B8 (ug/mL)	Wildtype FSU	K326M-E333S FSU	K326A-E333A FSU
0.01	5900	5900	5400
0.05	5800	5800	5300
0.1	5700	5600	5200
0.2	5400	5000	4800
0.3	4000	3600	3200
0.5	1600	1100	800
1.0	300	300	200
2.0	50	20	10
5.0	20	10	5
10.0	10	5	5

FIG. 13

EC50 of wt-C2B8 = 1.54
EC50 of A327g (C2B8) = 1.08

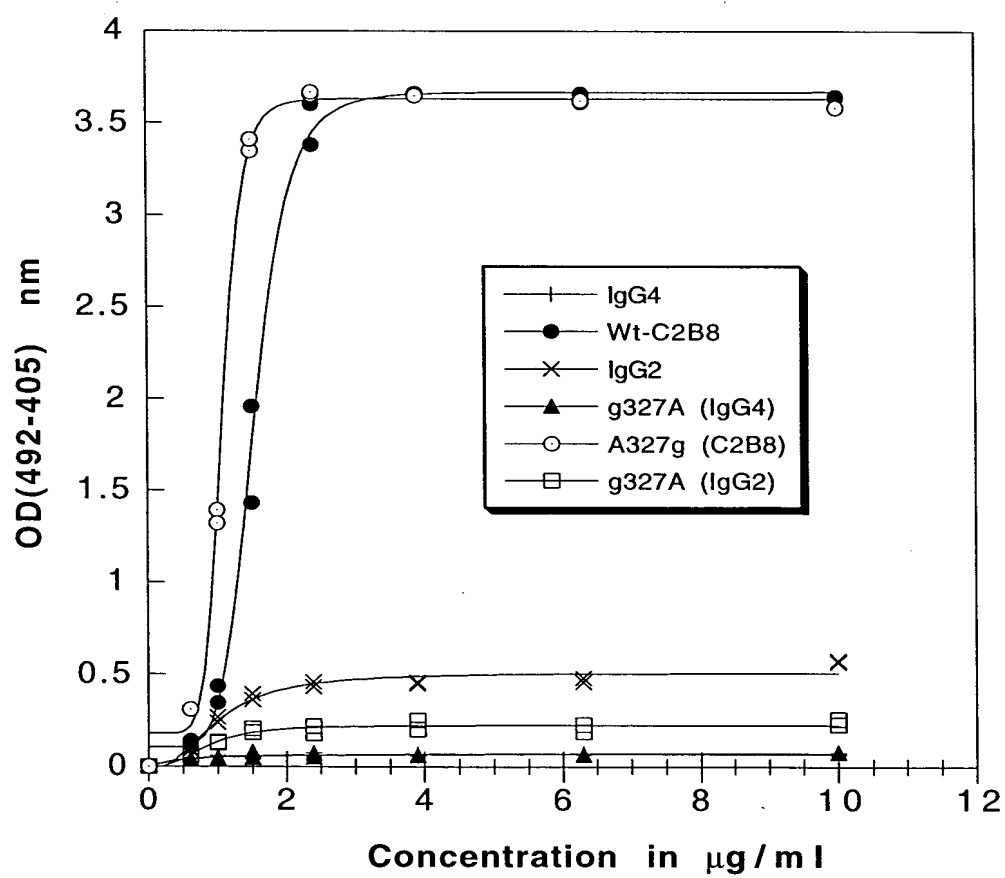
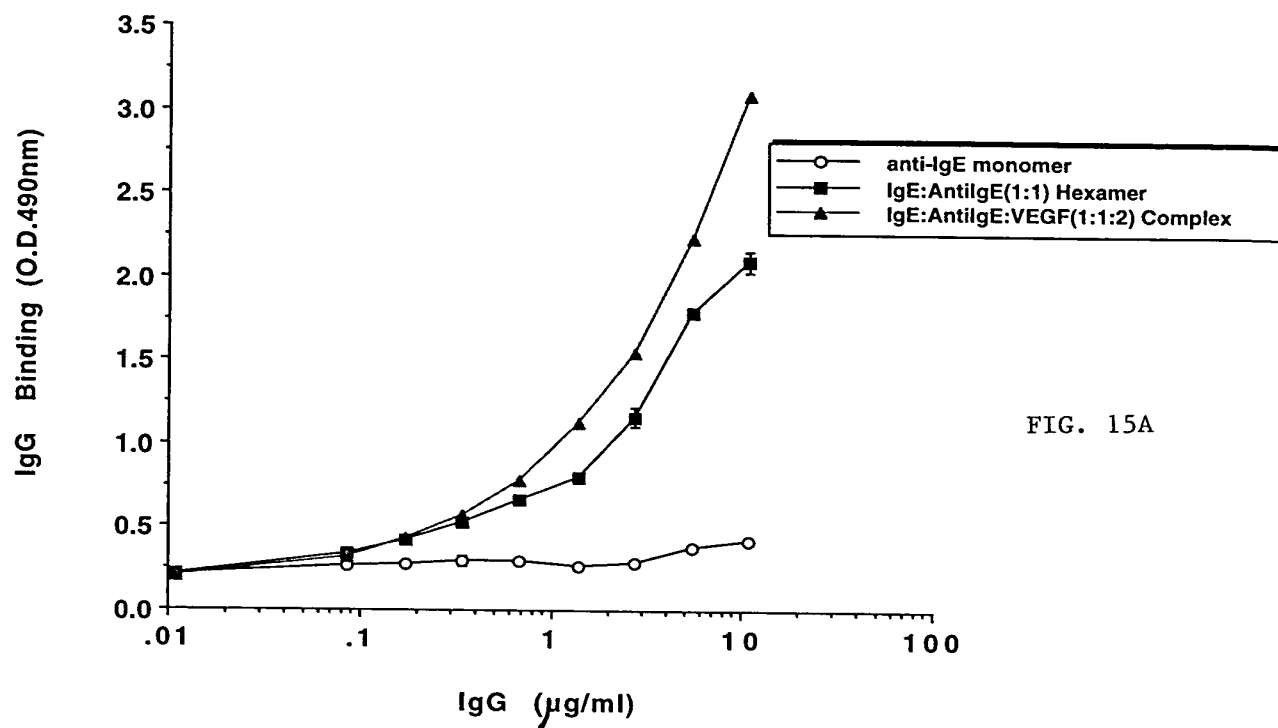
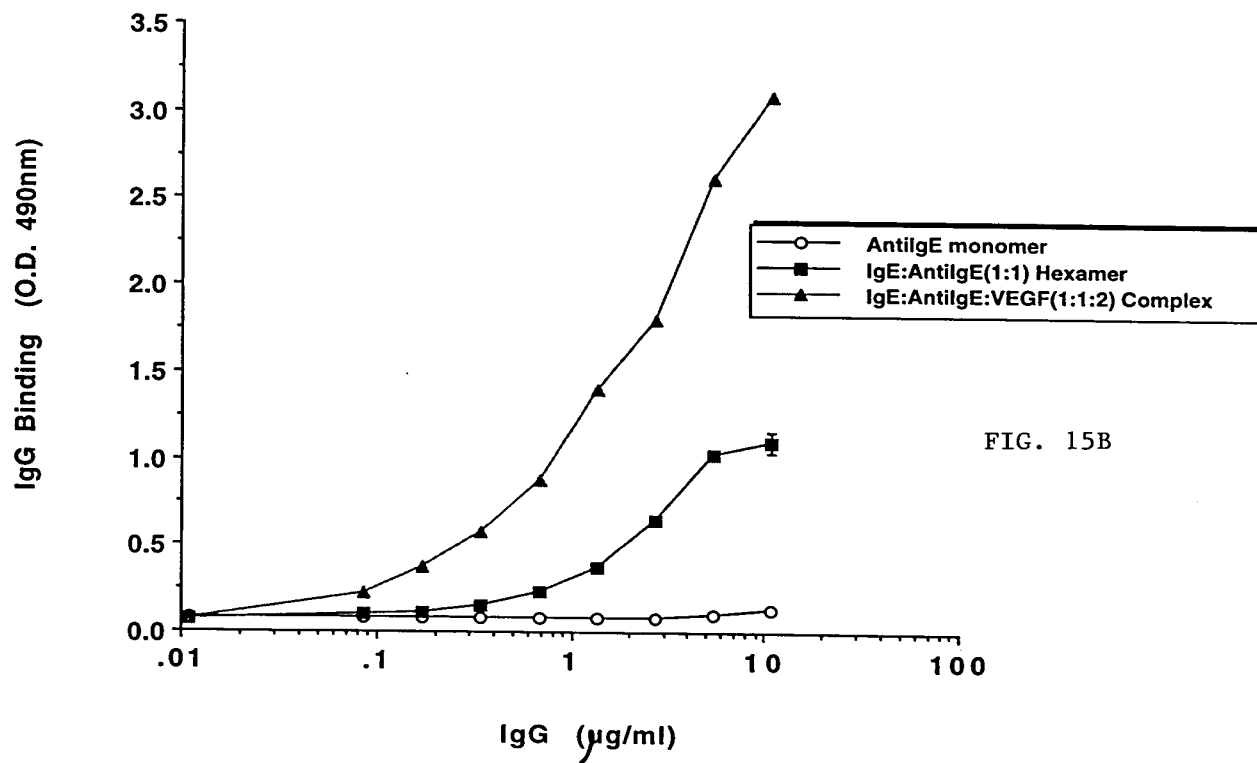


FIG. 14

Fe γ R11B



Fe γ R11A



FCγRIIA

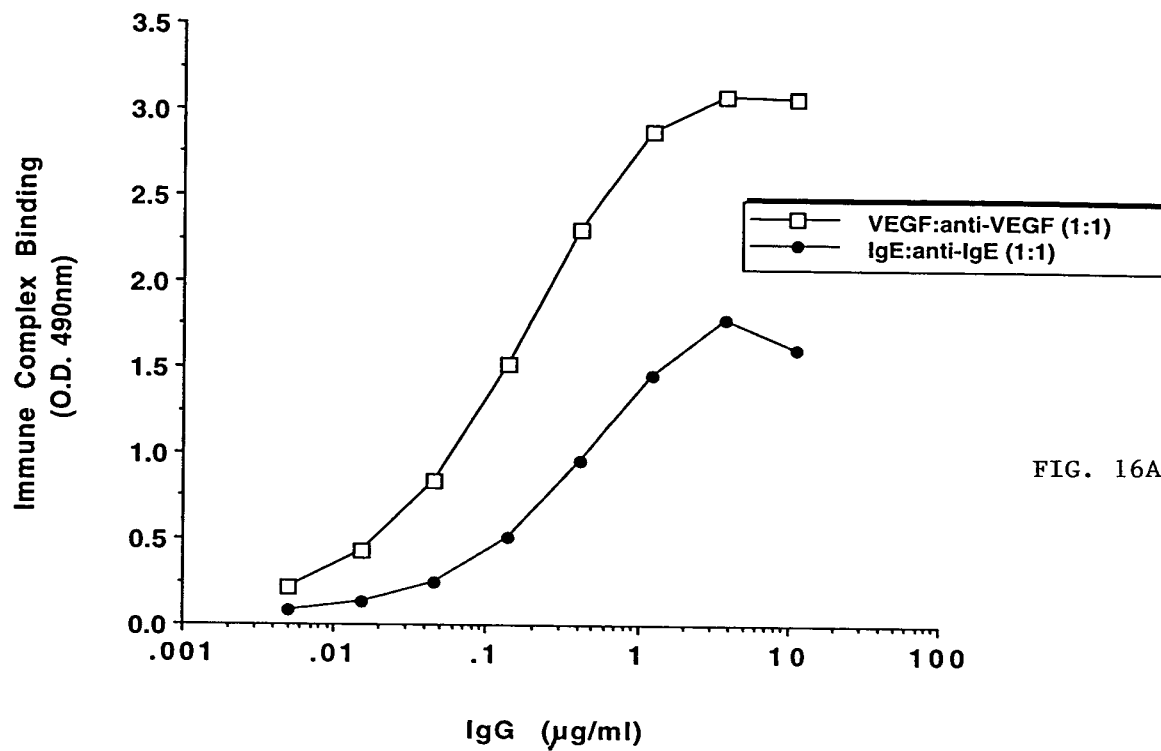


FIG. 16A

FCγRIIA

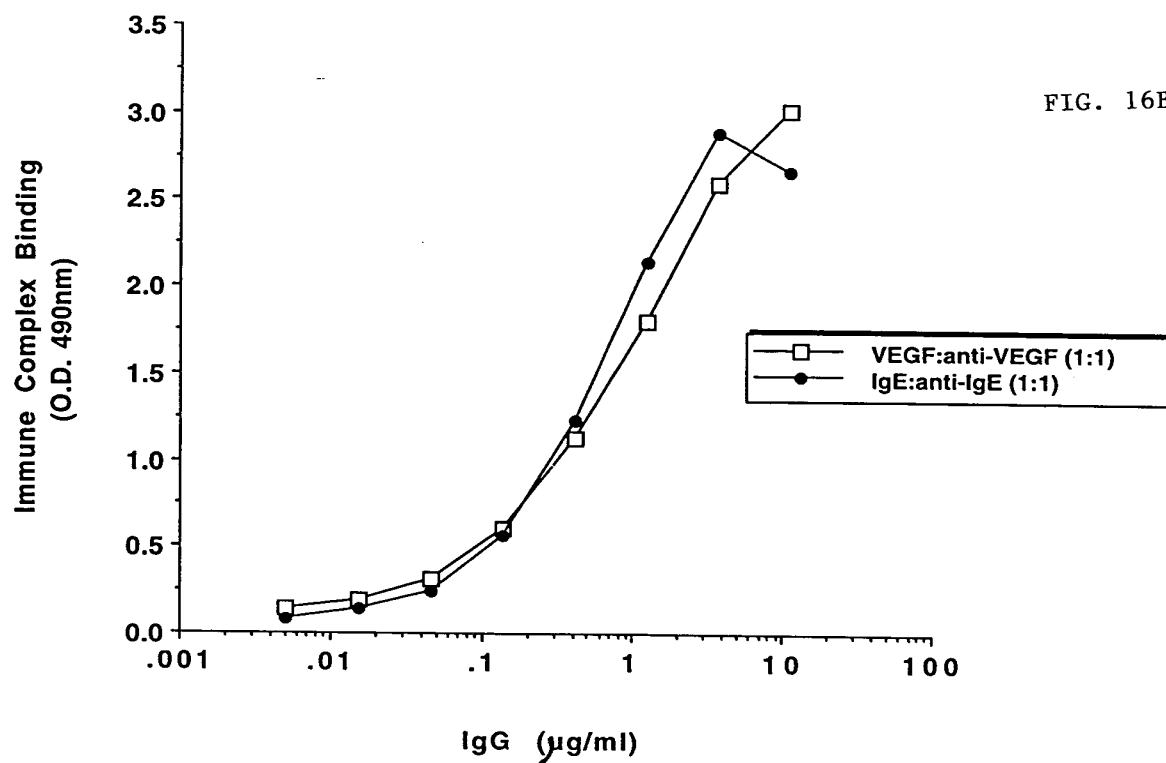


FIG. 16B

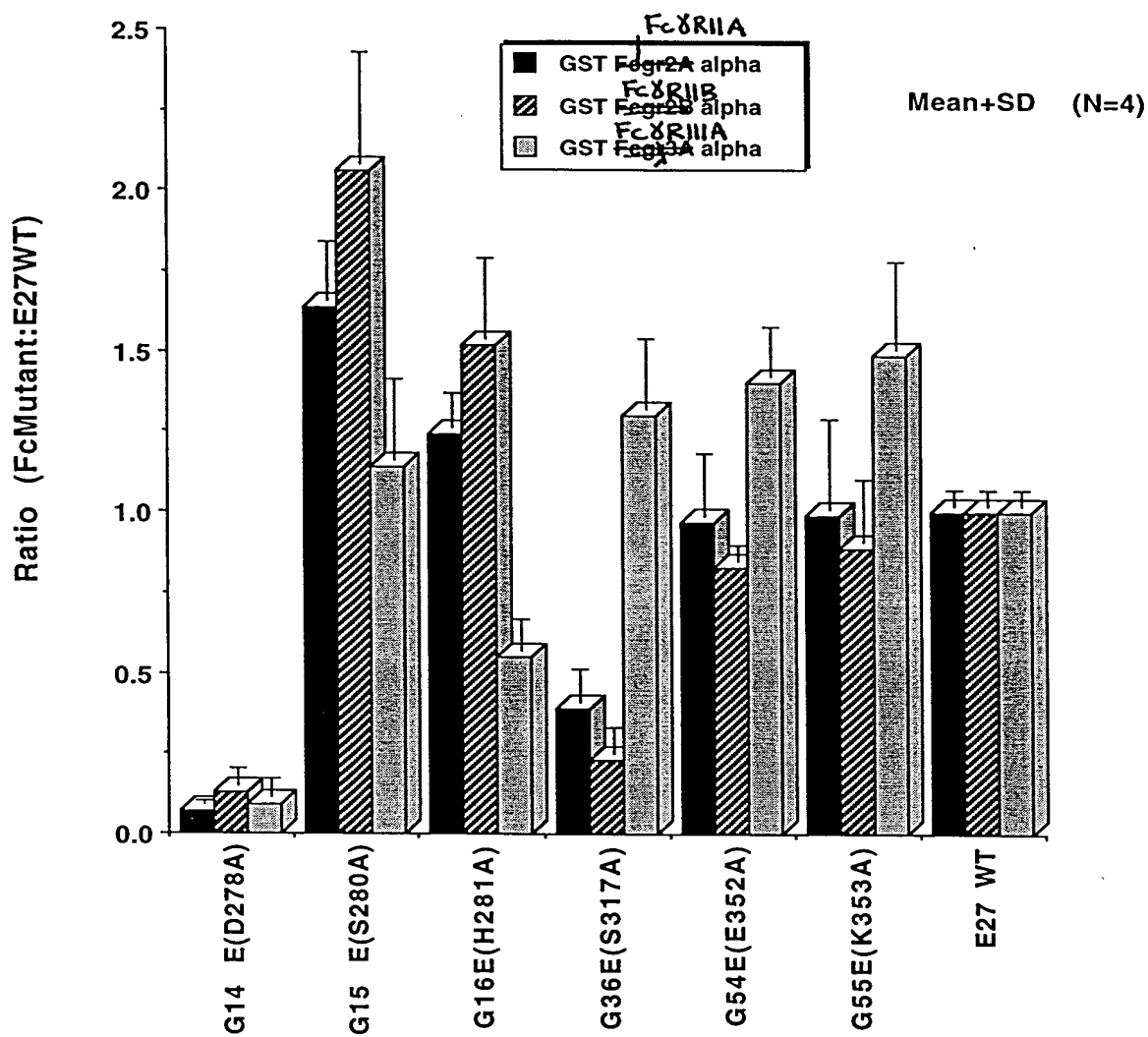


FIG. 17

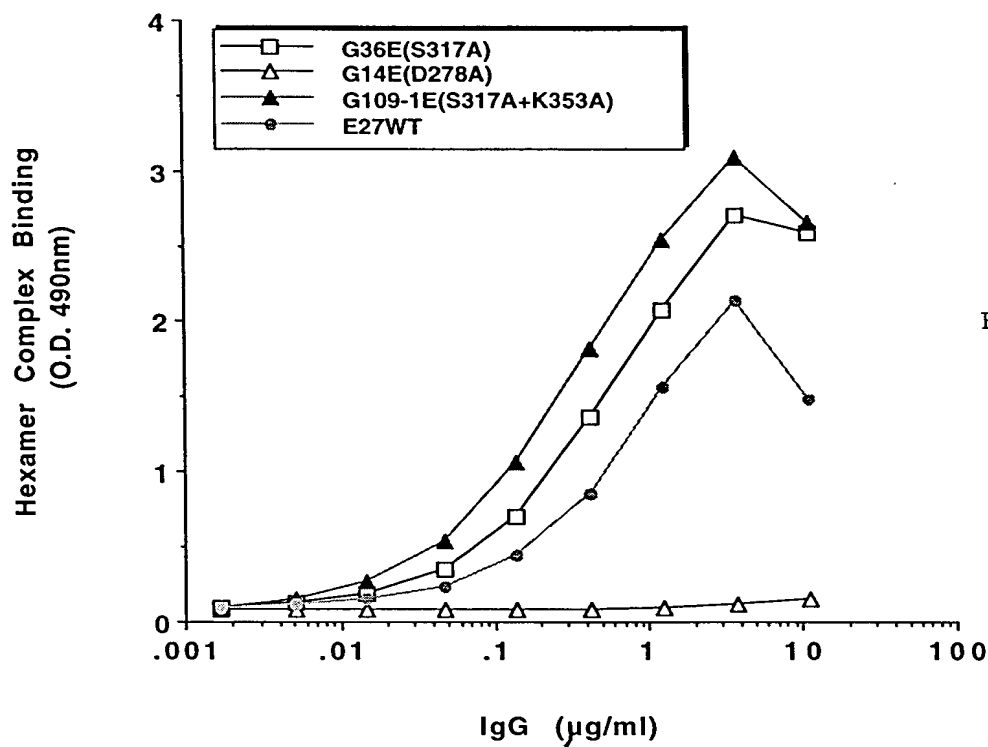


FIG. 18A

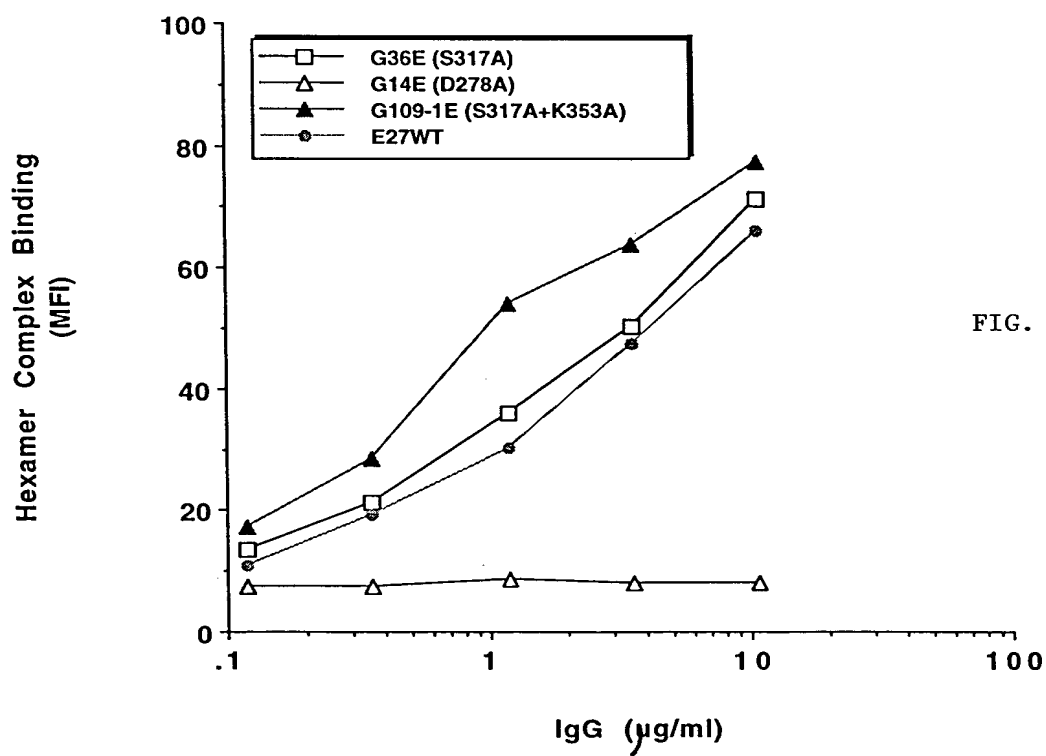


FIG. 18B

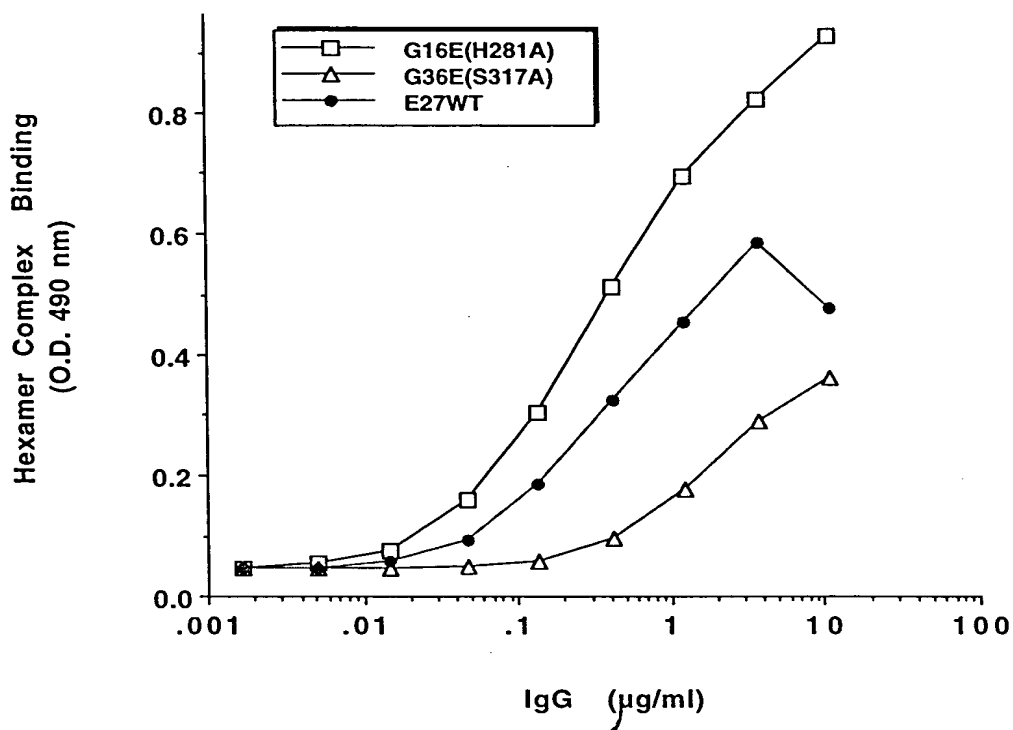


FIG. 19A

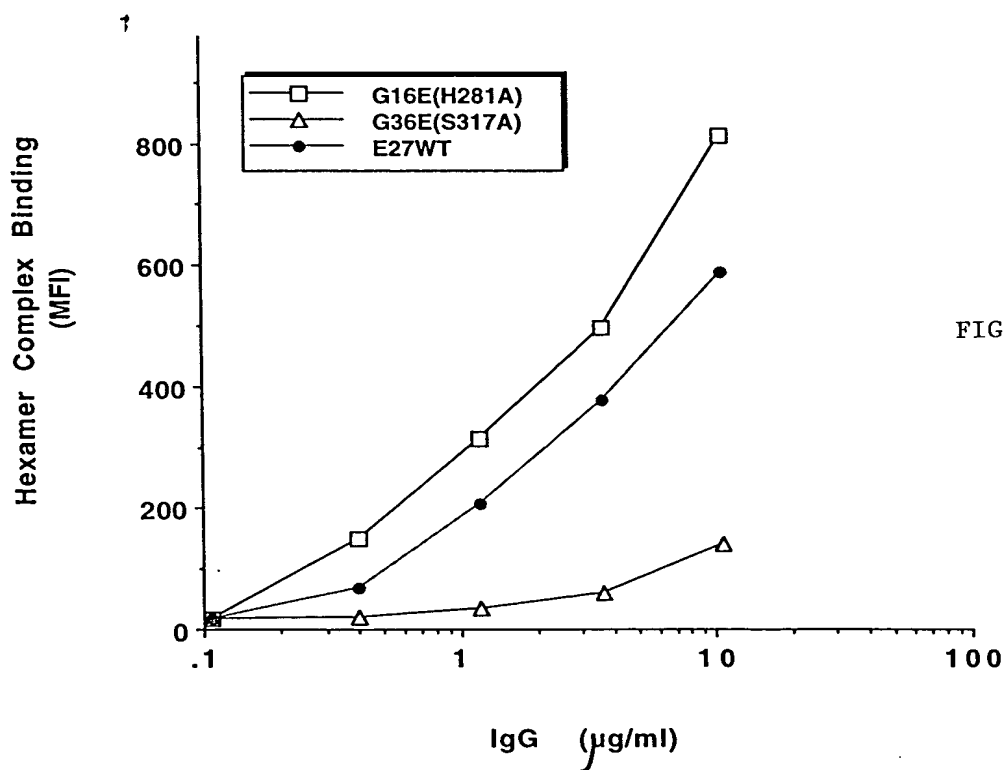


FIG. 19B

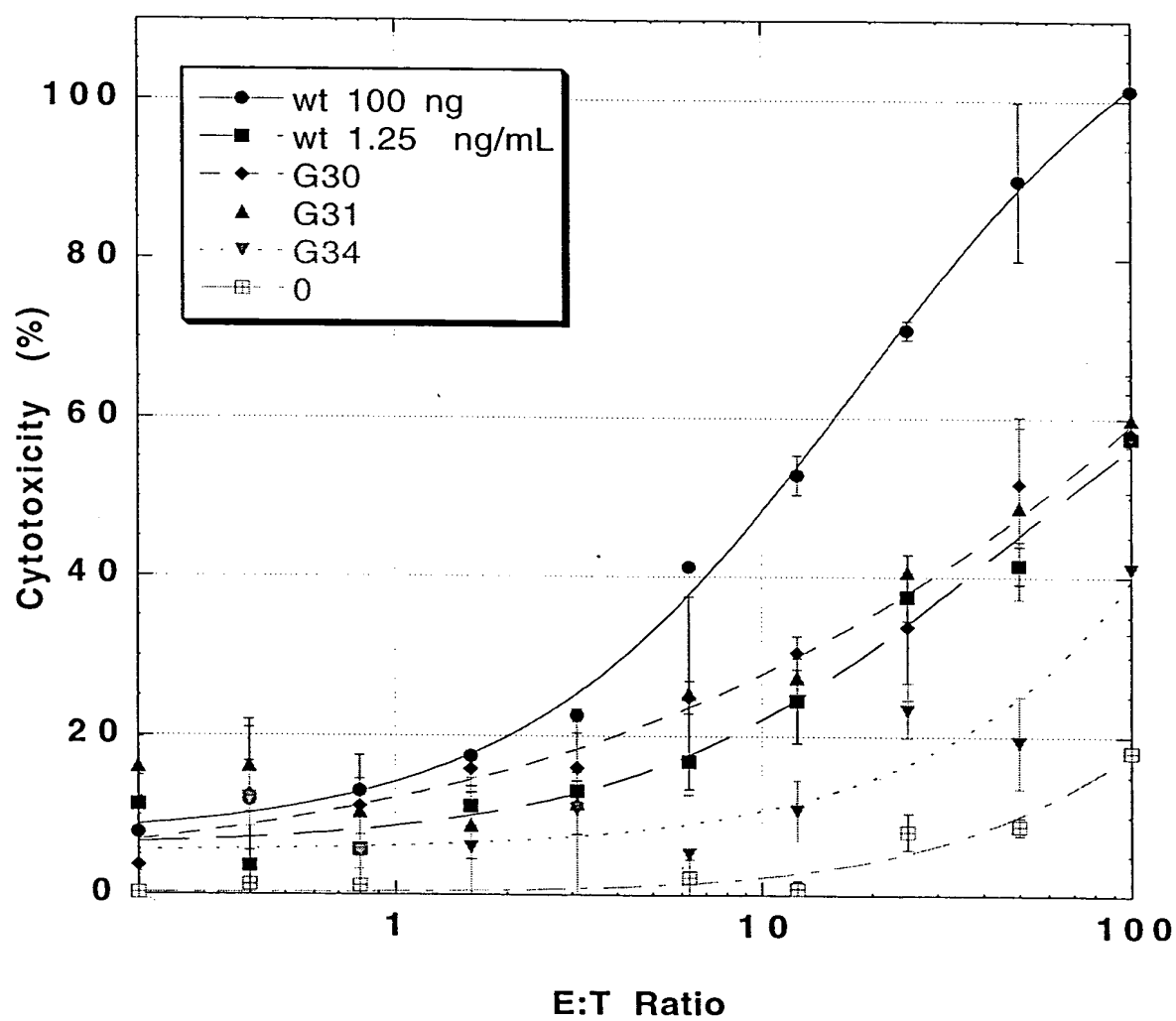


FIG. 20

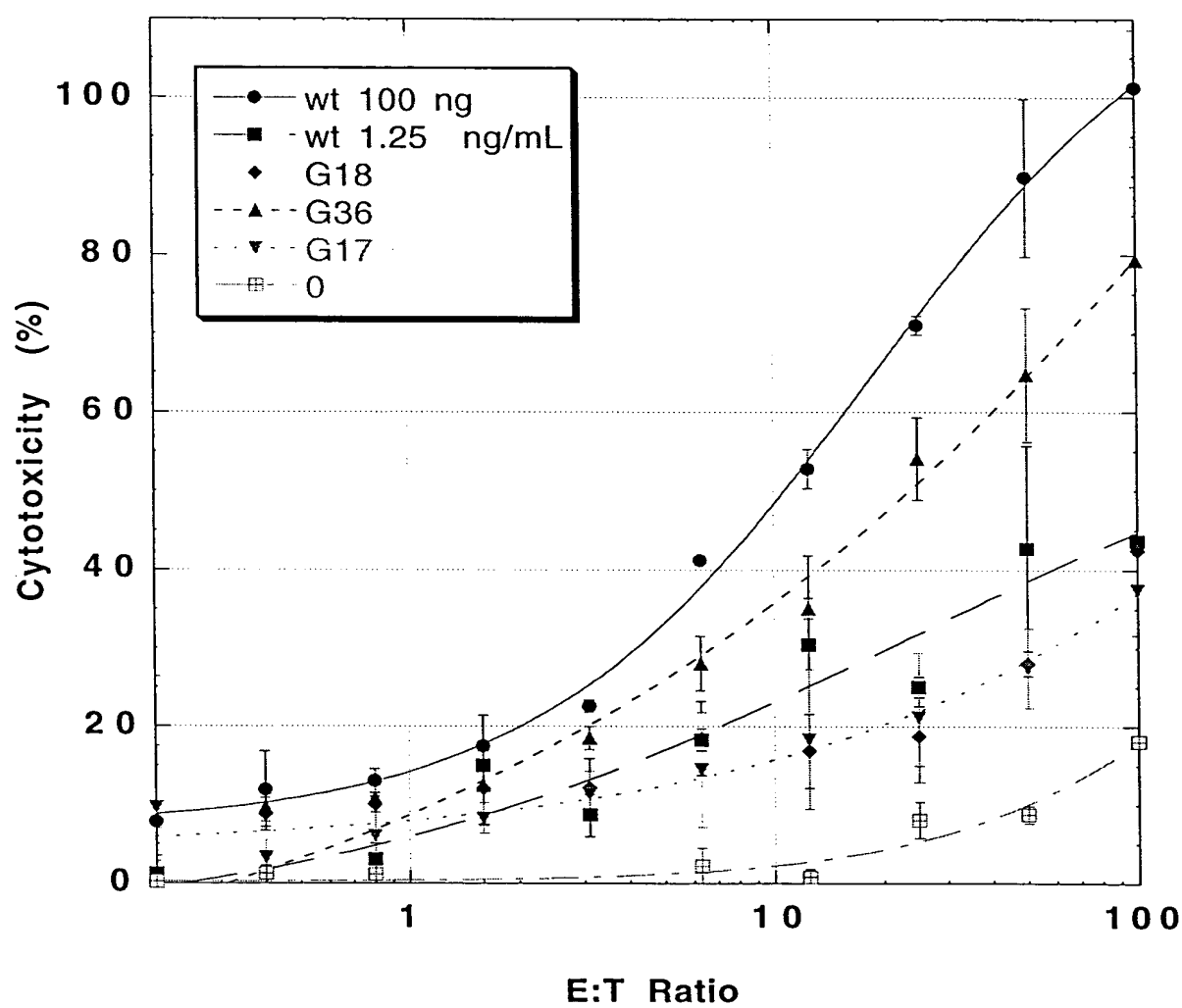


FIG. 21

	230	240	250	260	270
humIgG1	PAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYV				
humIgG2	PAP - PVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYV				
humIgG3	PAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFKWYV				
humIgG4	PAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSDQEDPEVQFNWYV				
murIgG1	---TVPEVSSVFIFPPKPKDVLTTITLTPKVTCTVVVDISKDDPEVQFSWFV				
murIgG2A	PAPNLLGGPSVFIFPPKIKDVLMLISLSPIVTCVVVDVSEDDPDVQISWFV				
murIgG2B	PAPNLEGGPSVFIFPPNIKDVLMLISLTPKVTCTVVVDVSEDDPDVQISWFV				
murIgG3	PPGNILGGPSVFIFPPKPKDALMISLTPKVTCTVVVDVSEDDPDVHVSWFV				
	280	290	300	310	320
humIgG1	DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP				
humIgG2	DGVEVHNAKTKPREEQFNSTFRVVS LTVLHQDWLNGKEYKCKVSNKGLP				
humIgG3	DGVEVHNAKTKPREEQFNSTFRVVS LTVLHQDWLNGKEYKCKVSNKALP				
humIgG4	DGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLP				
murIgG1	DDVEVHTAQTQPREEQFNSTFRSVSELPIMHQDCLNGKEFKCRVNSAAFP				
murIgG2A	NNVEVHTAQTQTHREDYNSTLRVVSALPIQHQDWMSGKEFKCKVNNKDLP				
murIgG2B	NNVEVHTAQTQTHREDYNSTIRVVS LPIQHQDWMSGKEFKCKVNNKDLP				
murIgG3	DNKEVHTAWTQPREAQYNSTFRVVSALPIQHQDWMRGKEFKCKVNNKALP				
	330	340	350	360	370
humIgG1	APIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAV D L				
humIgG2	APIEKTISKTKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAV				
humIgG3	APIEKTISKTKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAV				
humIgG4	SSIEKTISKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAV				
murIgG1	APIEKTISKTKGRPKAPQVYTIPPPKEQMAKDKVSLTCMITDFFPEDITV				
murIgG2A	APIERTISKPKGSVRAPQVYVLPPEEEMTKKQVTLTCMVTD FMPEDIYV				
murIgG2B	SPIERTISKPKGLVRAPQVYTLPPPAEQLSRKDVSLTCLVVGFNPGDISV				
murIgG3	APIERTISKPKGRAQTQVYTIPPPREQMSKKVSLTCLVTNFFSEAISV				
	380	390	400	410	420
humIgG1	EWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMH				
humIgG2	EWESNGQPENNYKTTPPMLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMH				
humIgG3	EWESSGQPENNYNTTPPMLDSDGSFFLYSKLTVDKSRWQQGNIFSCSVMH				
humIgG4	EWZSNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSVMH				
murIgG1	EWQWNGQPAENYKNTQPIMDTDGSYFVYSKLVQKSNWEAGNTFTCSVLH				
murIgG2A	EWTNNGKTELNYKNTEPVLDSDGSYFMYSKLRVEKKNWVERNSYSCSVVH				
murIgG2B	EWTNNGHTEENYKDTAPVLDSDGSYFIYSKLVNMKTSKWEKTDSFSCNVRH				
murIgG3	EWERNGELEQDYKNTPPILDS DGTYFLYSKLTVDTD SWLQGEIFTCSVVH				
	430	440			
humIgG1	EALHNHYTQKSLSLSPGK				
humIgG2	EALHNHYTQKSLSLSPGK				
humIgG3	EALHNRFTQKSLSLSPGK				
humIgG4	EALHNHYTQKSLSLSPGK				
murIgG1	EGLHNHHTTKSLSHSPGK				
murIgG2A	EGLHNHHTTKSFSRTPGK				
murIgG2B	EGLKNYYLKKTISRSPGK				
murIgG3	EALHNHHTQKNLSRSPGK				

FIG. 22A

Percent Identity Among Fc Sequences

	1	2	3	4	5	6	7	8
1. humIgG1	-	94	94	94	64	66	63	68
2. humIgG2		-	93	92	65	63	60	67
3. humIgG3			-	91	64	64	61	67
4. humIgG4				-	62	64	61	64
5. murIgG1					-	65	61	67
6. murIgG2A						-	77	70
7. murIgG2B							-	68
8. murIgG3								-

FIG. 22B

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	230	240	250	260	270
humIgG1	PAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYV				
humIgG2	PAP - PVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYV				
humIgG3	PAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFKWYV				
humIgG4	PAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSQEDPEVQFNWYV				
	****			*	* *
	280	290	300	310	320
humIgG1	DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP				
humIgG2	DGVEVHNAKTKPREEQFNSTFRVVSVLTVVHQDWLNGKEYKCKVSNKGLP				
humIgG3	DGVEVHNAKTKPREEQFNSTFRVVSVLTVLHQDWLNGKEYKCKVSNKALP				
humIgG4	DGVEVHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLP				
		*	*	*	*
	330	340	350	360	370
humIgG1	APIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAV				
				D L	
humIgG2	APIEKTISKTKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAV				
humIgG3	APIEKTISKTKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAV				
humIgG4	SSIEKTISKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAV				
	**	*		*	
	380	390	400	410	420
humIgG1	EWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMH				
humIgG2	EWESNGQPENNYKTTPPMLDSDGSFFLYSKLTVDKSRWQQGNVFSQSVMH				
humIgG3	EWESSGQPENNYNTTPPMLDSDGSFFLYSKLTVDKSRWQQGNIFSCSVMH				
humIgG4	EWESNGQPENNYKTTPPVLDSDGSFFLYSRLTVDKSRWQEGNVFSQSVMH				
	*	*	*	*	* *
	430	440			
humIgG1	EALHNHYTQKSLSLSPGK				
humIgG2	EALHNHYTQKSLSLSPGK				
humIgG3	EALHNRFTQKSLSLSPGK				
humIgG4	EALHNHYTQKSLSLSPGK				
	**	*			

FIG. 23

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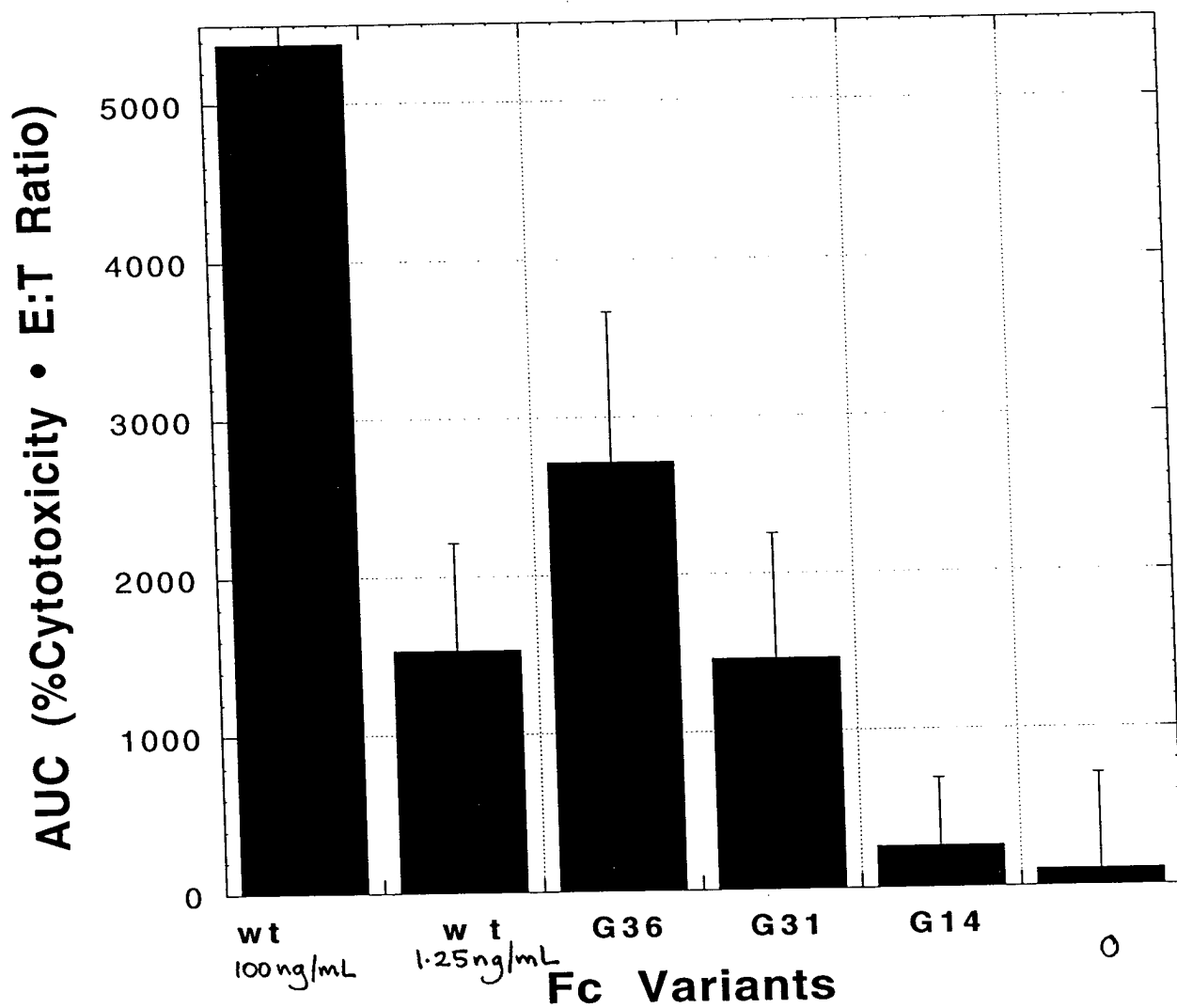


FIG. 24